

**NAVIGATIONAL/LANDING INSTRUMENT TRAINING AID, DEVICE 2B4A****TRAINING CATEGORY:**

AVIATION (Instrument)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 2B4A is unclassified.

FUNCTIONAL DESCRIPTION:

The Navigational/Landing Instrument Training Aid, Device 2B4A, is a magnetic chalkboard and an aircraft silhouette which mounts three (3) enlarged radio navigation instrument faces. The chalkboard will hang on the wall or stand on the floor in self-contained legs. The aircraft silhouette can be positioned as desired on the chalkboard, and is held by self-contained magnets. Two (2) spring rewind reels with cables, representing the source of radio navigation signals, can be placed on the chalkboard as desired. The instruments represented are the ID-249 Course

Indicator, the ID-250 Radio Magnetic Indicator and the ID-310 Range Indicator. The indications provided by these instruments can be manually changed to show the indications under various radio navigation flight conditions.

The device is intended as a classroom training aid in the instruction of students in radio navigation procedures; either to brief the student before flight or review methods used after flight, to determine errors in method or procedures. While intended primarily for student use, the trainer may also be used by more experienced pilots to review special situations encountered, since the function of the device is to duplicate under classroom conditions, the radio navigational situations encountered in flight. By using the chalkboard alone, it is possible to visualize a problem in such abstract terms as lines of position, course, bearing distance, wing speed, and direction. By utilizing the aircraft silhouette and instruments in conjunction with the chalkboard, the abstract problem may be demonstrated in terms of instrument readings.

DIRECTORY OF NAVAL TRAINING DEVICES

REFERENCE PUBLICATIONS:

NAVEXOS P-2233: Instructor's Guide for the Navigational/Landing Instrument Training Aid, Device 2B4A.

CONTRACT IDENTIFICATION:

Manufactured by Model Masters Inc., Port Washington, NY under NAVTRASYSCEN Contract No. N140(61339)69750B.

LOCAL STOCK NUMBER:

6910-LL-C00-7120

EQUIPMENT SUPPLIED

QUANTITY	NAME/NOMENCLATURE	OVER-ALL DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Navigational/Landing Instrument Training Aid, Device 2B4A, consists of:	4 x 48 x 48	60
1	Chalkboard w/legs		
1	Aircraft Silhouette		
1	Wind Arrow		
2	Radio Station Locators w/Retractable Hook-on Cables		
1	Replica ID-250 Radio Magnetic Indicator		
1	Replica ID-310 Range Indicator		
1	Replica ID-249 Course Indicator		

The following Special Tools are F/U/W Device 2B4A:

2B4A ST	6910-LL-C00-0911	Silhouette Assy Sample
2B4A ST	6910-LL-C00-7121	BRS Patt MM22 F100S Deg Sel DL
2B4A ST	6910-LL-C00-7219	Stamping Die Instrument Cases S249 S250
2B4A ST	6910-LL-C00-7218	BRS Patt MM21 For Units/Tens Deg Course Sel
2B4A ST	6910-LL-C00-7214	BRS Patt MM23 For Set Button S249-12
2B4A ST	6910-LL-C00-7217	Silk Screen MM26 For S249 & S250
2B4A ST	6910-LL-C00-7216	Silk Screen MM25 For Pts S249, 3 and S2
2B4A ST	6910-LL-C00-7213	BRS Patt MM24 For Belt S310S
2B4A ST	6910-LL-C00-7215	Silk Screen MM27 For S249 & S250